

618 heileapileserserleuHsystyrlleumelegluhrAlaasnGugly 634  
 |||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
 1941 TGTGCGATGCCCTCCATTAGGCCTCATGGACGACAGCAGTCG 1990  
 635 LeuGlnGlyAspArgAlaPhrPcysAlaGlyLeuSerAsnPhrHeI 551  
 1991 TATCTGGTCACAATTGGGGTATCAGGAATCCGGACTTTGCA 2040  
 325 YsglyGlyAlaIealealleGlusPserGlygluLeuSerLeuSerAla 341  
 |||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
 1056 AAGGGGGCAATTGGGTTCTAGATCTGGAGAGATTGATTCGCA 1105  
 342 AspGlyArgAspIleValPhrLeuGlyAsnThrValThrSerThr.. 357  
 |||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
 1105 GATCTGGCAATACTATTTCGAGGCAACT.. .ACGAGCACTACGG 1152  
 358 ..... ProGlyThasnDargSerIleAspIleGlyAsnThrValThrSerAlaL 372  
 |||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
 1203 ATTTTAATCTCCGAGCACTGGGGAAATAAGGTATTCTCTATGAT 1252  
 389 ProIleThrThrGlySerSerThrThrValThrAspValLeuLysVala 405  
 |||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
 1294 TAAAGCTGGCAGGATCTGGAAATTACTATGAAGCTACATCGTTCT 1343  
 422 hrglygluLsLeuSerGluThrGluAlaIaAspSerLysAsnLeuThr 438  
 ::|:|||:|||:|||:|||:|||:|||:|||:|||:|||:  
 1344 CTGGAGAGAACTCTCAGAGAGGACTTANGAACCTGACAACTTGAG 1393  
 405 nGluThrProIalaSpSerAlaLeuGlnTyrrhGlyAspIleIlePheT 422  
 |||:|||:|||:|||:|||:|||:|||:|||:|||:  
 1394 SerLysLeuLeuGlpProvalThrLeuSerGlyGlyThrLeuSerLeuL 455  
 |||:|||:|||:|||:|||:|||:|||:|||:  
 439 TCTACATTACAGGCTGTAGAGCTGCTGAGGCTCTAATGAGCTGAA 1443  
 455 SHGlyValIleLeuGlnLrhGlnAlaPheThrGlnGlnAlaAspSerA 472  
 |||:|||:|||:|||:|||:|||:|||:  
 1444 AGATGGACTGACTGTAGTGCACAACTATAACGAGGTGAGGATCGA 1493  
 472 rgeleuglumetaspvalGlyLythrThrLeuGlu... .ProIalaSpThrSer 487  
 ::|:|||:|||:|||:|||:|||:|||:  
 1494 RAGCAGTATGGAGGAGCTACTTTGAGGCCACCGCTGAGGGGGTC 1543  
 488 ThileasasnLeuvalLeuIleSerSerIleAspGlyValaLysL 504  
 |||:|||:|||:|||:|||:|||:|||:  
 1544 ACTCTCAATGGCCTAGCCATTAATATAGTCTTAGATGGGACAAATA 1593  
 504 SALalysIleGluThrLysAlaIleSerLysAsnLeuLeuLysLeuLysL 521  
 |||:|||:|||:|||:|||:|||:  
 1594 AGCTATCATTAAGGCCAGGCCAGCAAGTAGGTGTTGCCATACGGC 1643  
 521 hrIleThrLeuLeuAspProThrGlyThrPhrYrGluAsnHisSerIeu 537  
 |||:|||:|||:|||:|||:|||:  
 1644 CTATCATGCTGTAGCTGCTAGGAACTATTTGAGCATCATATCTC 1693  
 538 ArgAsnProGlnSerTyrAspIleLeuGlyLeuIysAlaSerGlyThrva 554  
 |||:|||:|||:|||:|||:|||:  
 1694 AGTCACAGCAGGGCTTCCTTATAGCTTCTGCACAGGAGCAG 1743  
 554 IthrSerThrAlaValThrProAspProIleMetGlyGlyLysHeIst 571  
 |||:|||:|||:|||:  
 1744 GACTACTACAGATATCCCGATACCCAACTCTAACTACGATCACT 1793  
 571 yrglyyrglyrglyIleGlyIleGlyLeuValProAspSerLeuLeuIlePr 584  
 |||:|||:|||:|||:  
 1794 ATGGGATCAAGGGACTGAT.. .ATGTTGGTCGACGATGCACT 1840  
 585 GlyAspSerThrThrAlaIlePhenTrThrLysIleGlyAspSerIlePr 601  
 |||:|||:|||:|||:  
 1841 GCAAAACAAAAAAATGCTTAACTGGACTAAACAGATCAAAGCC 1890  
 601 OasnProGluArgIleGlySerLeuValProAspSerLeuLeuIlePhe 618  
 |||:|||:|||:  
 1891 GATCCGAGAGTCAGGACCTTGTCTCAATAACGCTGTGGGTCTT 1940



Qy	140	GAIQ-TKGTTLKDNNSSLVFEHKNCTAEGGATOCK-----
Qy	200	QTSPLAITTGNNOGEVSFSDFNTSSDSGAIFTEASVTISNNAKVSFIDNKVTCGASSSTG
Db	174	-----SSSTA-----
Qy	260	MSGGAICAYKTSDTKVLTGNNMMLFSNNNTTAGAIVKLEASGGTLFSRNSV
Db	181	LK-----LENKNLVSENNSEKKGAIYADKLTVSGGPTLFNSN
Qy	320	GSTAPKGAAIEDS-GELSLADSGCIVLFGNTVST--TPGCNNSIDGTSKMT-----
Db	225	HNSSPKGAGAICRKDSDGBCSLTANLGDPTEGDNKILITNGGSPTVNRNSIDGLGGFT
Qy	376	LRSAGGRAIYFDPI-TGSSTIVTDVLKVNETPPADSALQTYGNIFTGKLSERAAADD
Db	285	LWAKESGIFFDPDPLANTGGSTEI---ELNKTESTD----YTGTIVPSGERLSDEKTI
Qy	435	KNLTKLQLQPVTLGGTSLKKGVTQTOAQDSDLRENDVGTLE---PADTSTM
Db	339	ANLKSFKQPKIGAGSLSVLKDGVLEAKKITOTGTVSTVMDLGTQLTPSSGSETITL
Qy	491	NLVNISSI--DGAKKAKITKASKNLISGT-TLDPTGTVENHLRNPOSIDIE
Db	399	NLDNINASLGGGGTAPAKLATNTASOALIA-ANVLVNTDSNTWEDPTLASKFSAI-
Qy	548	LKASGIVTSAINTPPPMGEKF---HIGOQTWOPIVWTGST---TATEWNTKGY
Qy	601	PNPERRIGSLVPNSLNAFIDISLWLYMETANEGLQGDRAFWCGALSNFPHKUSTKRRG
Db	513	PNPERRIGSLVPNTLNGAFSTRALONLMDTSVNGADYSRGFWVNSLANKSGSTDTRK
Qy	661	FRHLGGYVIGGNNLTCSDTILSAFCOLFGDRDYPFVAKQNGVWYGGTYKHNEVIS
Db	573	FRHHSGAYALGVYQTPSDDVCSAFCOLFGDKDVKYFVSKNSSTIYASIVH-----
Qy	721	LPCKIRPCSLSYVPT-----EIVLFGSNLNSYHTIDNDDKTKY-----TY
Db	627	-----ISYWNNWNTLQNTLEGAEPLVNLQNLTCHASNNKMTNTWTPKNVTP
Qy	762	PTVKGSWGNDSFALEFGGRAPICLDESALFEQYMPFMKIQFVYAHQEFKEGDT-EAREF
Db	678	SEINGDWGNDGCFVGVEFGAKPT-ETASLLFDMSPFVFKLQLVHAAQDDKFNNSDQGYF
Qy	821	GSSRUVNLALPIGRFDKESDCDAITYNLTGTVDRSNPCTILRISG-----WKF
Db	737	ESNNLNLNSMPIGVRLKEFHKDQTASYNTLAYAPDVLVRSPNPDCTSLLVSPITSAVVWTK
Qy	879	GTNLRQAVLVRAGHFCFENSNEAFSOPSFETRGSSRNYYDLGAKYQF 928
Db	797	ANNIARHAFILQGNYLALTNTELSOFEELRGSCRTYNDLGSIQF 846
Qy	140	GAVSCSTGSLSLTKNVNLLFSKPNSTDNGAITAKTISLTGTMALSFEMNSKKGAT 190
Query Match 33.6%: Score 1604.5; DB 2; Length 846;		
Best Local Similarity 38.7%; Pred. No. 1.0e-82;		
Matches 368; Conservative 140; Mismatches 269; Indels 173; Gaps 26;		
Qy	23	TERVLDSASAFDQN-KNKNFSVRESQEDAGTTLFKGVNLENIPGTTAIIKSCFNNTK 81
Db	26	TNEFLITSDSYGNVNTDEFKET--TSGAIVTCGHNCT-SYAGDSPLNKSCSETT 82
Qy	82	GDLFTGNGNSLLFOTDAGTVAAGAANNSVVDKSTTFIGFS--SLSFIASPGSSITMGK 139
Db	83	ENLSFIGNRYTLCFDNTTOSHSHPGATSGVNKTLDISGFLSCAYCPCG--TTGY 139
Qy	140	GAVSCSTGSLSLTKNVNLLFSKPNSTDNGAITAKTISLTGTMALSFEMNSKKGAT 190
Query Match 33.6%: Score 1604.5; DB 2; Length 846;		
Best Local Similarity 38.7%; Pred. No. 1.0e-82;		
Matches 368; Conservative 140; Mismatches 269; Indels 173; Gaps 26;		
Qy	23	TERVLDSASAFDQN-KNKNFSVRESQEDAGTTLFKGVNLENIPGTTAIIKSCFNNTK 81
Db	26	TNEFLITSDSYGNVNTDEFKET--TSGAIVTCGHNCT-SYAGDSPLNKSCSETT 82
Qy	82	GDLFTGNGNSLLFOTDAGTVAAGAANNSVVDKSTTFIGFS--SLSFIASPGSSITMGK 139
Db	83	ENLSFIGNRYTLCFDNTTOSHSHPGATSGVNKTLDISGFLSCAYCPCG--TTGY 139
Qy	140	GAVSCSTGSLSLTKNVNLLFSKPNSTDNGAITAKTISLTGTMALSFEMNSKKGAT 190